

(No Model.)

2 Sheets—Sheet 1.

E. U. SCOVILLE.
FAUCET.

No. 543,634.

Patented July 30, 1895.

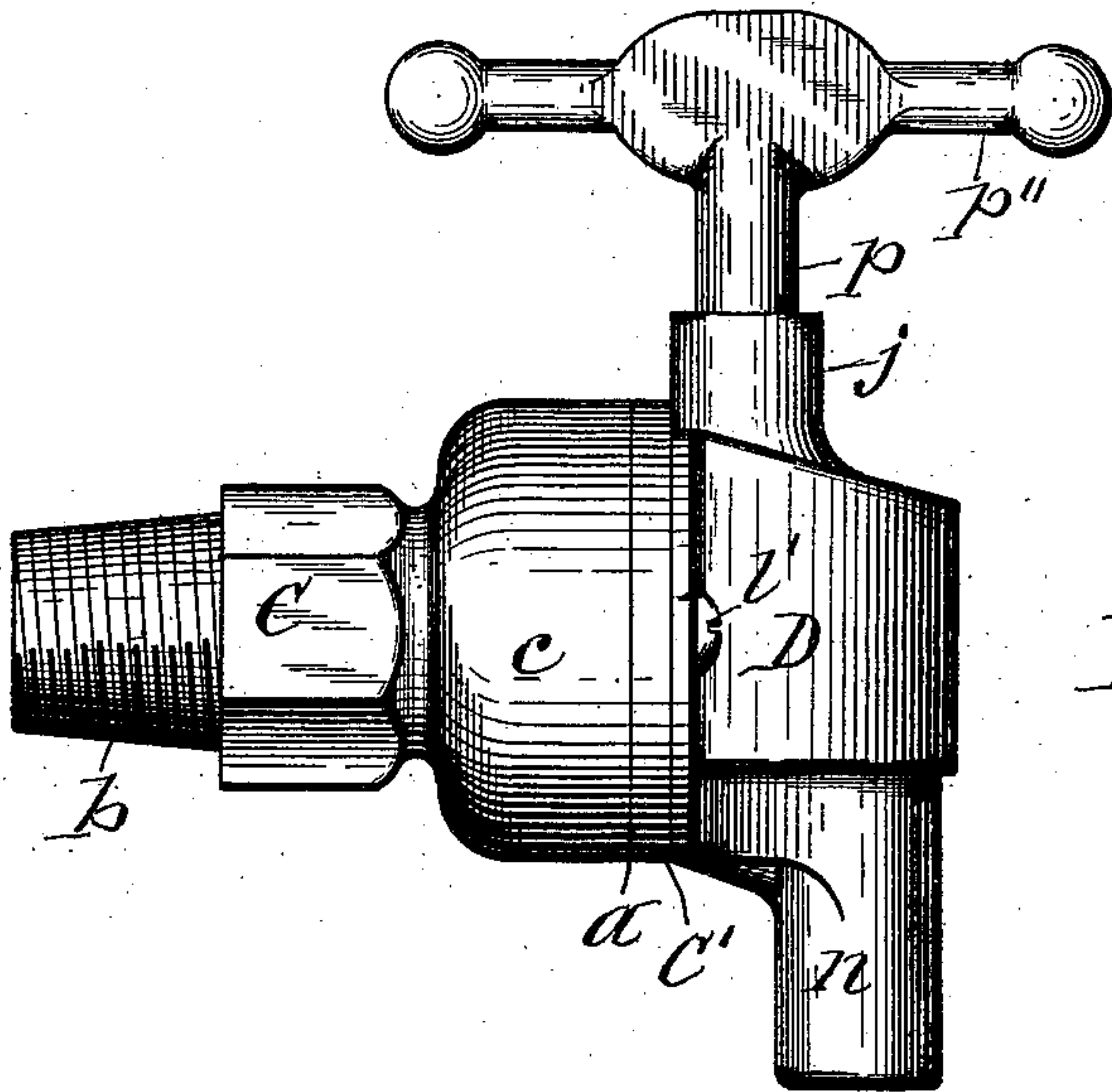


Fig. 1

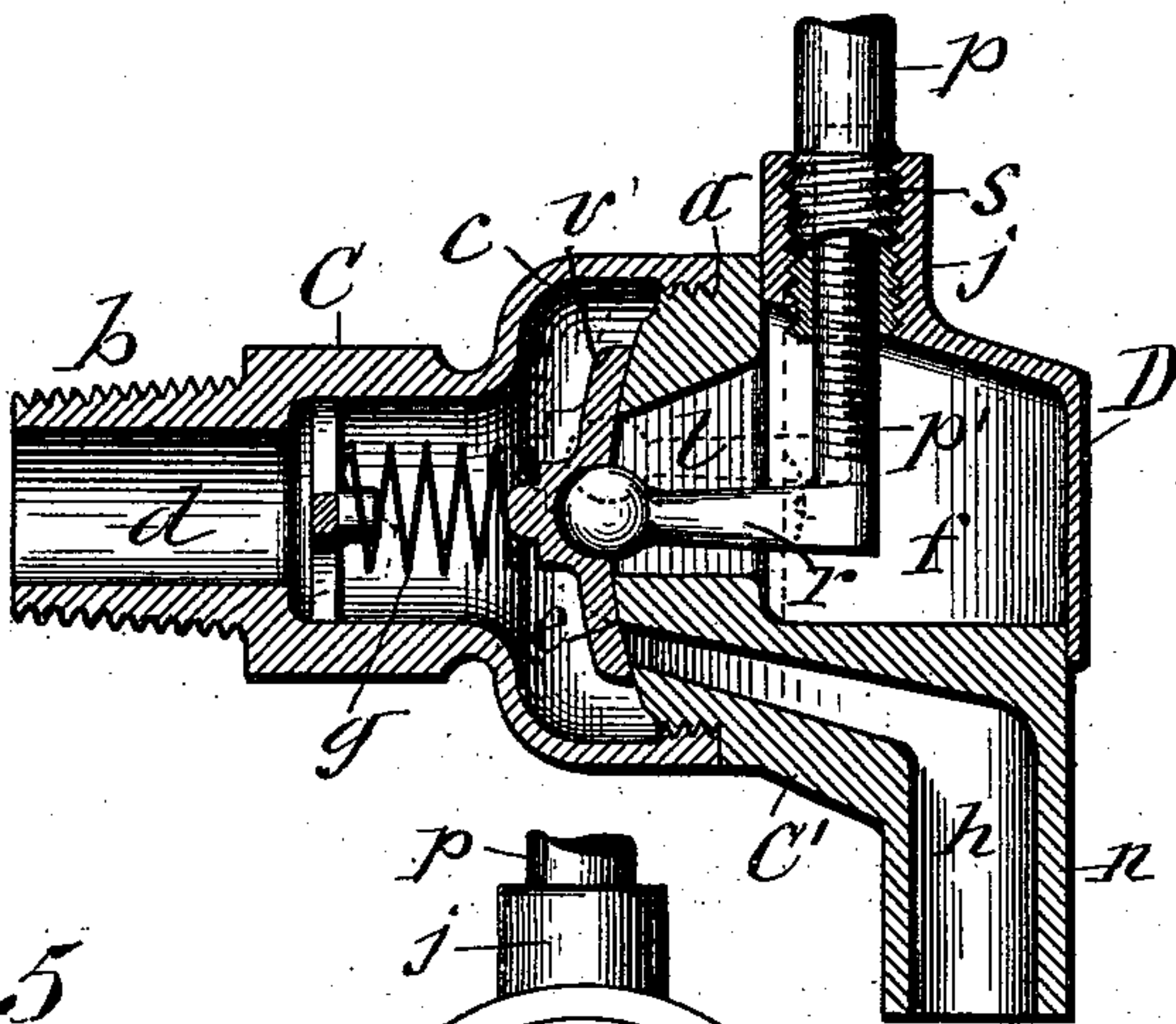


Fig. 2

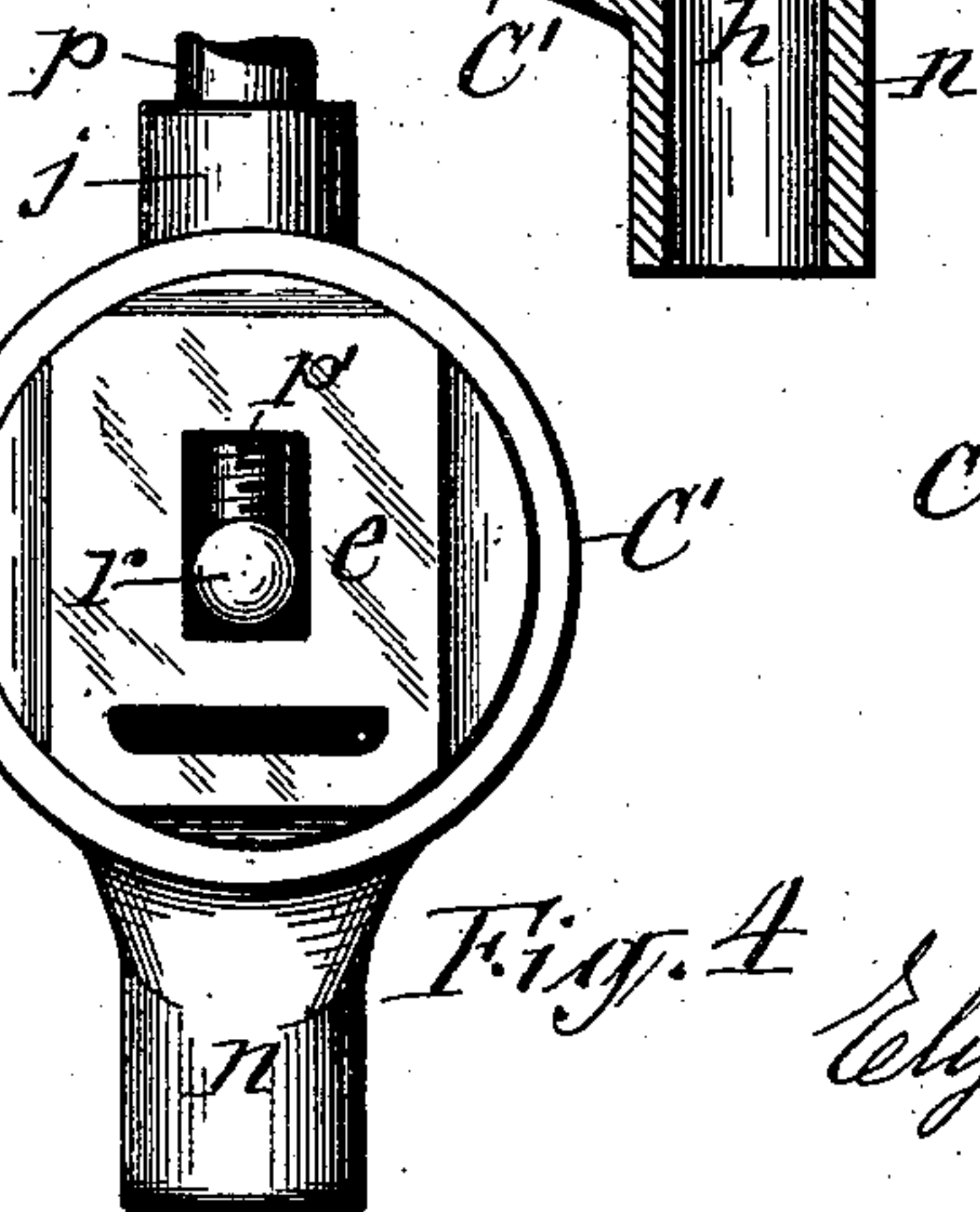


Fig. 4

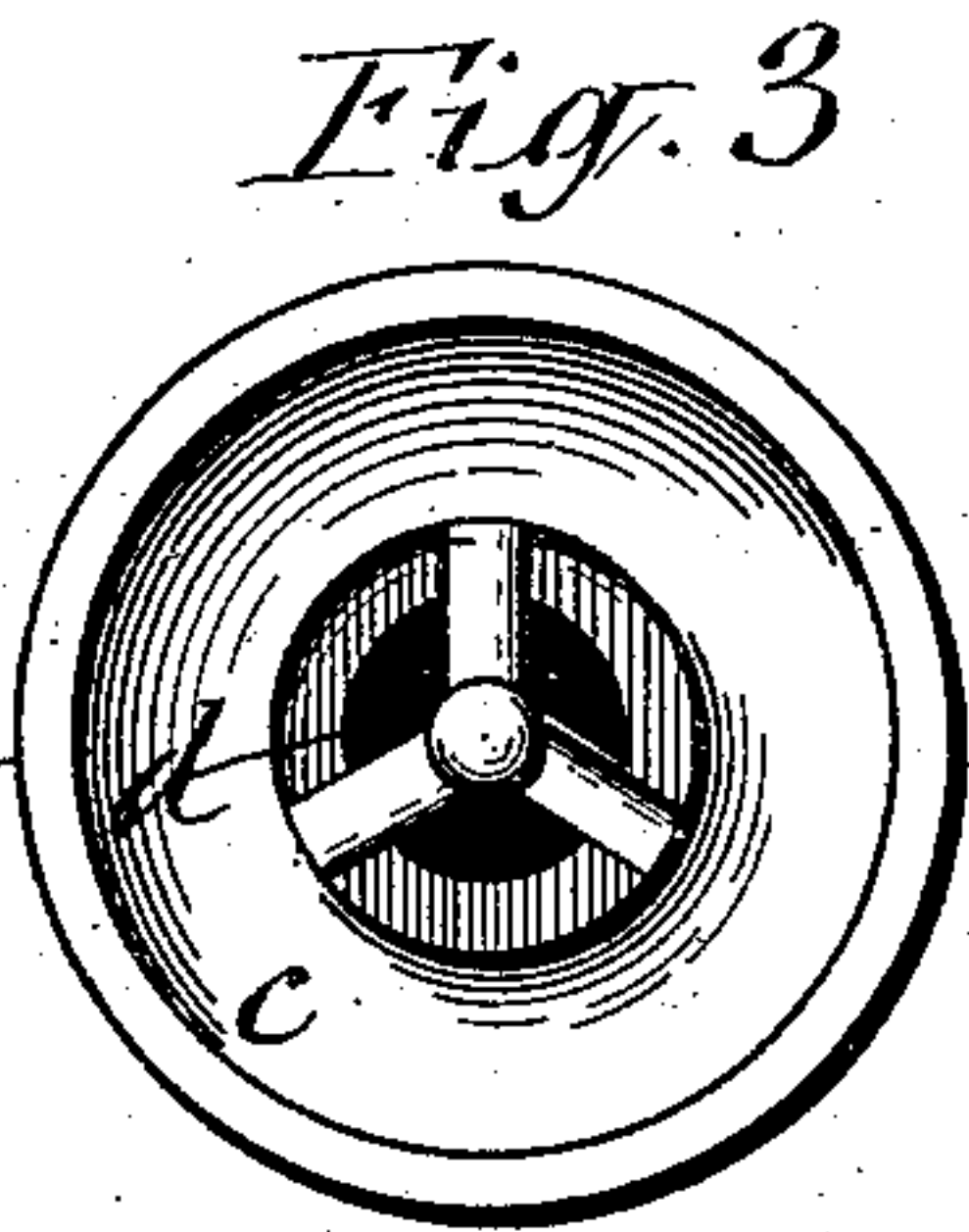
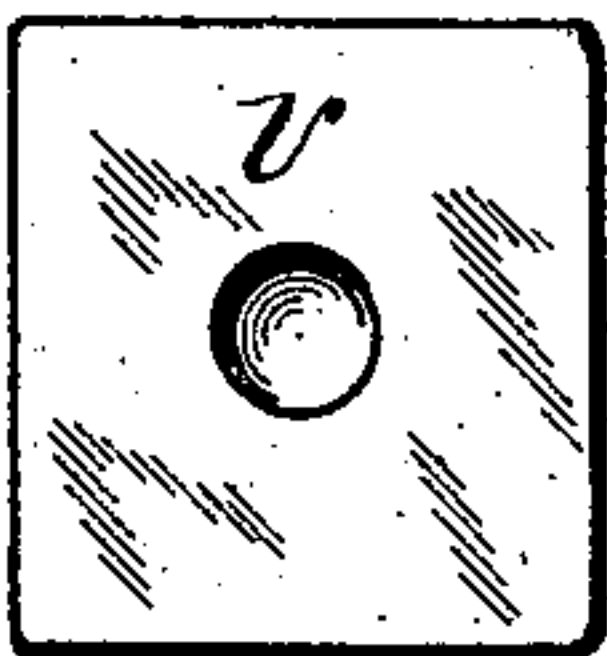


Fig. 3

Fig. 5



WITNESSES:

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C. L. Bendison.

INVENTOR:

Elijah U. Scoville

By E. Laess

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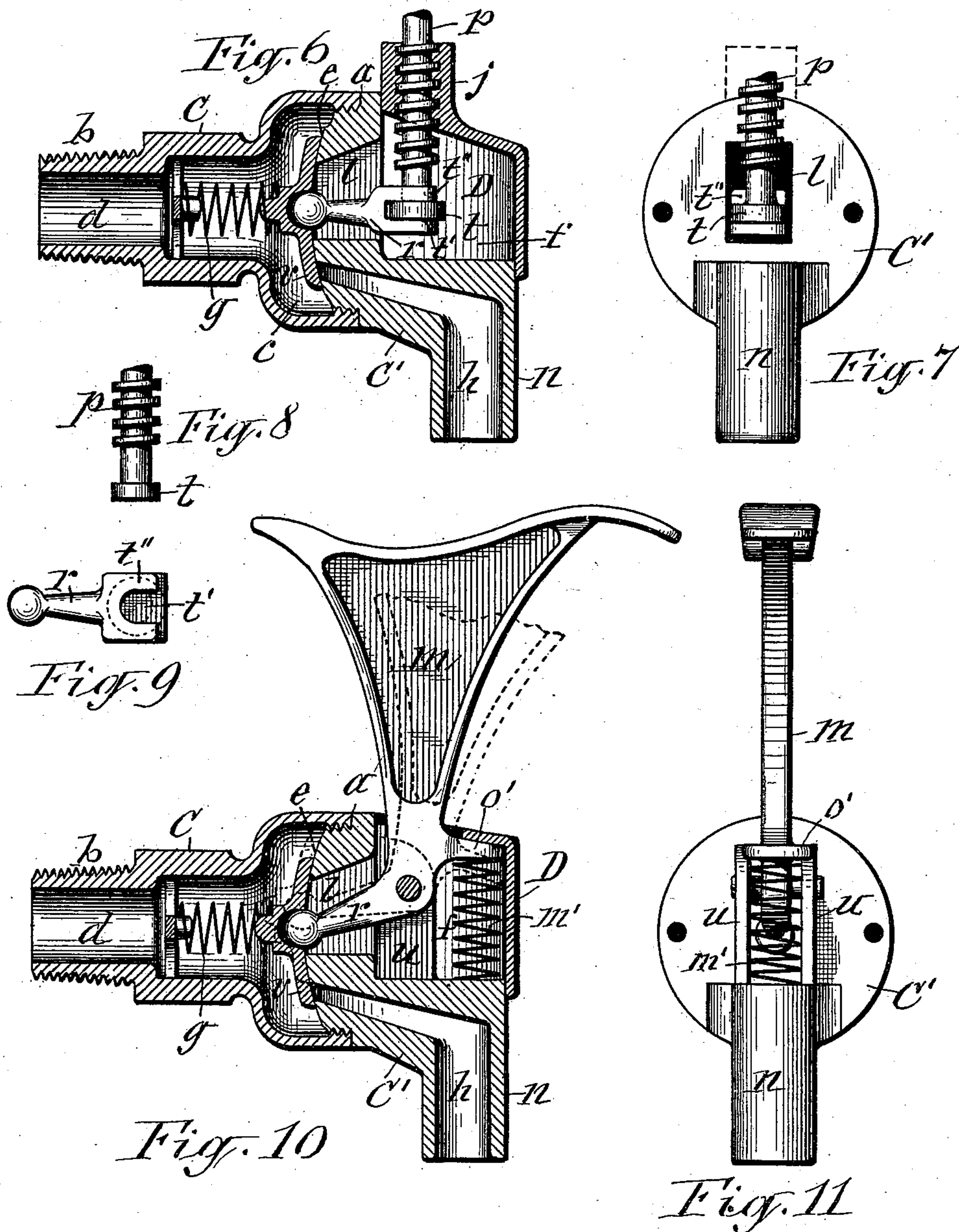
(No Model.)

2 Sheets—Sheet 2.

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No. 543,634.

Patented July 30, 1895.



WITNESSES:
C. L. Bondison
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INVENTOR:
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UNITED STATES PATENT OFFICE.

ELIJAH U. SCOVILLE, OF MANLIUS, NEW YORK.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 543,634, dated July 30, 1895.

Application filed March 11, 1895. Serial No. 541,257. (No model.)

To all whom it may concern:

Be it known that I, ELIJAH U. SCOVILLE, of Manlius, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Faucets, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of valves or faucets which have the valve-seat facing toward the liquid-receiving end of the faucet and a valve riding on said seat and pressed thereon by force of the liquid entering the faucet. Said valve is thereby held constantly on its seat and by sliding upon the same in the operation of opening and closing the valve it grinds itself to the seat and thus automatically adjusts itself so as to effectually prevent its leaking; and the invention consists in an improved construction and combination of the component parts of the faucet, all as hereinafter more fully described, and set forth in the claims.

In the annexed drawings, Figure 1 is a side view of a faucet embodying my invention. Fig. 2 is a vertical longitudinal section of the same. Figs. 3 and 4 are face views of the adjacent ends of the faucet-sections. Fig. 5 is a detached face view of the valve. Fig. 6 is a vertical longitudinal section of a modification of my invention. Fig. 7 is an outer end view of the faucet minus the cap to which the valve-operating stem is pivoted. Fig. 8 is a side view of the lower end portion of said stem. Fig. 9 is a detached plane view of the valve-operating finger. Fig. 10 is a longitudinal section of a further modification of my invention; and Fig. 11 is an outer end view of the same minus the aforesaid cap.

Similar letters of reference indicate corresponding parts.

The body or barrel of the faucet is composed of the two separable parts or sections C and C', preferably united by an externally-screw-threaded portion on one of said sections screwed into an internally-screw-threaded portion in the adjacent end of the other of said sections, as shown at *a*. The section C is formed with the usual tap *b* or otherwise suitably adapted to attach the faucet to the article from which the liquid is to be drawn. The opposite end of said section is formed

with the chamber *c* and into said chamber extends the liquid-inlet *d*.

The faucet-section C' is formed with the valve-seat *e*, inside of the chamber *c*, and facing the liquid-inlet *d*, as shown in Figs. 2, 6, and 10 of the drawings.

v denotes the valve which slides on said valve-seat, and by presenting its back toward the liquid-inlet *d* is constantly subjected to the pressure of the liquid entering the faucet and thus maintained tightly upon the seat. Said valve and its seat may be curved either concave or convex, as shown, or straight, as may be desired. The spring *g* merely serves to hold the valve in position during transportation of the faucet. From the aforesaid valve-seat through the nozzle *n* of the faucet-section C' extends the discharge-duct *h*. Over the said nozzle is a recess *f*, formed in the end of the section C', and from said recess into the chamber *c* extends a port *l*, which is elongated vertically. Over the aforesaid recess is a cap D, firmly secured to the faucet-section C', preferably by screws *l'*, passing through a flange on the cap and into the metal of the faucet-section. Said cap is formed with an internally-screw-threaded hub *j*, in which works the screw-threaded stem P, the outer end of which is provided with a suitable handle P'', by which to turn it for opening and closing the faucet. The lower end of said stem has extending from it a finger *r*, which extends through the port *l* and engages the valve *v*, preferably by a knob on the end of the finger entered into a socket in the valve, as shown. Inasmuch as said finger has to move bodily in a vertical plane I swivel said finger on the stem, and this may be effected in different ways.

I preferably form the stem of two parts *p* and *p'*, coupled together end to end in the following manner: The upper part *p* terminates with an externally and internally screw-threaded bushing *s*, by which it works in the screw-threaded hub *j*. Inside of the said bushing works the screw-threaded upper end portion of the stem extension *p'*, the lower end of which is provided with the finger *r*, as illustrated in Fig. 2 of the drawings. Thus the two screws are employed for raising and lowering or opening and closing the valve, the operation of which is thereby accelerated. I

also prefer to connect the finger *r* detachably to the stem by providing the lower end of the latter with a collar *t* and forming the finger *r* separate from the stem, and with the horizontal slot *t'* in the heel of said finger and a crotch *t''* over said slot, as shown more clearly in Figs. 8 and 9 of the drawings. Said slot and crotch allow the heel of the finger to be slipped endwise onto the stem, so as to bring the collar into the slot of the finger and the crotch over said collar, as shown in Figs. 6 and 7 of the drawings. The valve may also be operated by a stem of the form of a lever *m*, pivoted to flanges on the faucet-section *C*, and formed with the finger *r* engaging the valve, as represented in Figs. 10 and 11 of the drawings. A spring *m'* pressing upward on a lug *o'* on the heel of the lever serves to sustain the lever in its normal position and automatically close the valve.

What I claim as my invention is—

1. The improved faucet provided internally with a valve seat facing the liquid receiving end of the faucet and with a port extending outward from the valve seat, a valve sliding on said seat and constantly closing the aforesaid port, and a finger playing in said port and operating the valve as set forth.

2. A faucet having its body composed of a liquid-receiving section and liquid-discharge section detachably united, a valve-seat on the discharge section adjacent to the receiving section and a port extending from the valve-seat through the discharge section, a valve sliding on said seat and constantly closing said port, a spring bearing on the inner side of the valve and retaining the same on its seat, and a finger playing in the aforesaid port and engaging the outer side of the valve and operating the same as set forth.

3. The combination of the section —C— formed with the chamber —c—, the section

—C'— formed with the valve-seat —e— within said chamber and with the discharge duct —h— port —l— and the recess —f— the valve —v— riding on said seat, the cap —D— secured over said recess and provided with the internally screw-threaded hub —j—, the stem —p— working in said hub, and the finger —r— extending from said stem through the aforesaid port end engaging the valve as set forth.

4. The combination of the section —C— formed with the chamber —c—, the section —C'— formed with the valve-seat —e— inside of said chamber and with the discharge-duct —h— port —l— and recess —f—, the valve —v— riding on said seat, the cap —D— provided with the internally screw-threaded hub —j—, the stem —p— having a screw-threaded portion working in said hub and the finger —r— swiveled on said stem and extending through the port —l— and engaging the valve as set forth.

5. In combination with the section —C— formed with the chamber —c—, the section —C'— formed with the valve-seat —e— inside of said chamber and with the discharge-duct —h—, port —l— and recess —f—, the valve —v— riding on said seat, the cap —D— provided with the internally screw-threaded hub —j—, the stem —p— working in said hub and provided with the collar —t—, and the finger *r* —r— formed with the slot —t'— and crotch —t''— over said slot and detachably connected thereby to the stem as set forth and shown.

In testimony whereof I have hereunto signed my name this 6th day of March, 1895.

ELIJAH U. SCOVILLE. [L. S.]

Witnesses:

C. L. BENDIXON,

C. E. TOMLINSON.